

# **ENERGY STAR® Application for Certification**

87

ENERGY STAR ® Score<sup>1</sup>

### CBRE - 101 Arch St

Registry Name: CBRE - 101 Arch St

Property Type: Office

Gross Floor Area (ft2): 473,896

**Built: 1988** 

For Year Ending: 11/30/2016<sup>2</sup>

Date Application Becomes Ineligible: 03/30/2017

- 1. The ENERGY STAR Score is based on total source energy. A score of 75 is the minimum to be eligible for the ENERGY STAR.
- Applications must be submitted to EPA within 120 days of the Year Ending Date. The award is not final until approval is received from EPA



Please use the <u>Licensed Professional's Guide to the ENERGY STAR</u> ® for Commercial <u>Buildings</u> for reference in completing this checklist (http://www.energystar.gov/lpguide).

# Property & Contact Information

Property Address
CBRE - 101 Arch St
101 Arch Street

Boston, Massachusetts 02110

Property ID: 1370872 Clarion ID: 300154 Boston Energy Reporting ID:

0304597000

Property Owner CLPF 101 Arch LLP 101 Arch Street 17th Floor Boston, MA 02110

Primary Contact
Laura Mintz
CBRE NE Partners, LP as Manager
101 Arch Street, Suite 230
Boston, MA 02110
617-204-1030

laura.mintz@cbre-ne.com

## 1. Review of Whole Property Characteristics

# 1) Property Name for Registry: CBRE - 101 Arch St Is this the official name to be displayed in the Registry of ENERGY STAR Certified Buildings and Plants? If "No", please specify: 2) Property Type: Office

Is this an accurate description of the primary use of this property?  3) Location:	Yes	∏No
101 Arch Street Boston, Massachusetts 02110  Is this correct and complete?		
4) Gross Floor Area: 473,896 ft <sup>2</sup> Does this represent the entire property? (i.e., no part of the building/property was excluded/subtracted from the total) If "no" please specify what space has been excluded.	Yes	□No
5) Average Occupancy: (b) (4)  Is this occupancy accurate for the entire 12 month period being assessed?	Yes	□No
6) Number of Buildings: 1  Does this number accurately represent all structures?	Yes	No
Notes:		
Indoor Environmental Standards		
Ventilation for Acceptable Indoor Air Quality  Does this property meet the minimum ventilation rates according to ANSI/ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality?	Yes	□No
Acceptable Thermal Environmental Conditions     Does this property meet acceptable thermal environmental conditions according to	Yes	□No

Notes:

3) Adequate Illumination

ANSI/ASHRAE Standard 55, Thermal Environmental Conditions for Human Occupancy?

Does this property meet the minimum illumination levels as recommended by the Illuminating Engineering Society of North America (IESNA) Lighting Handbook?

### 2. Review of Property Use Details

Parking: Parking Garage		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★ 1) Open Parking Lot Size: 0 ft²	/	
Is this the total area that is lit and used for parking vehicles? Open Parking Lot Size refers specifically to open area, which may include small shading covers but does not include any full structures with roofs. Parking lot size may include the area of parking spots, lanes, and driveways.	Yes	□No
★ 2) Partially Enclosed Parking Garage Size: 0 ft²		
Is this the total area of parking structures that are partially enclosed? This includes parking garages where each level is covered at the top, but the walls are partially or fully open.	Yes	□No
★ 3) Completely Enclosed Parking Garage Size: 23,242 ft²	/	
Is this the total area of parking structures that are completely enclosed on all four sides and have a roof? This includes underground parking or fully enclosed parking on the first few stories of a building.	Yes	No
<b>★4) Supplemental Heating:</b> 100% Yes		
Is this the correct answer to whether your parking garage has Supplemental Heating, which is a heating system to pre-heat ventilation air and/or maintain a minimum temperature during winter months?	Yes	□No
Notes:		
Office: Building		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★1) Gross Floor Area: 406,631		
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include	Yes	□No

interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area

should not include any exterior spaces such as balconies or exterior loading docks and driveways.		
☆ 2) Weekly Operating Hours: (b) (4)		
Is this the total number of hours per week that the property is occupied by the majority of the employees? It does not include hours when the HVAC system is starting up or shutting down, or when property is occupied only by maintenance, security, cleaning staff, or other support personnel. For properties with a schedule that varies during the year, use the schedule most often followed.	Yes	□No
★3) Number of Workers on Main Shift: (b) (4)		
Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.	Yes	□No
★ 4) Number of Computers:(b) (4)		
Is this the total number of computers, laptops, and data servers at the property? This number should not include tablet computers, such as iPads, or any other types of office equipment.	Yes	No
★ 5) Percent That Can Be Heated: (b) (4)		
Is this the total percentage of the property that can be heated by mechanical equipment?	V Yes	□No
★ 6) Percent That Can Be Cooled:		
Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.	Yes	□No
Notes:		
Food Service: Restaurant		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★1) Gross Floor Area: 10,213	/	
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an	Yes	□No

atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.		
Notes:		
Fast Food Restaurant: Small Restaurants		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.	/	
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.  Notes:	Yes	□No
Office: Concourse and Back of House  This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an	Yes	□No

atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.		
☆ 2) Weekly Operating Hours: (b) (4)		
Is this the total number of hours per week that the property is occupied by the majority of the employees? It does not include hours when the HVAC system is starting up or shutting down, or when property is occupied only by maintenance, security, cleaning staff, or other support personnel. For properties with a schedule that varies during the year, use the schedule most often followed.	Yes	□No
☆ 3) Number of Workers on Main Shift: (5) (4)		
Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.	Yes	□No
★ 4) Number of Computers: (b) (4)		
Is this the total number of computers, laptops, and data servers at the property? This number should not include tablet computers, such as iPads, or any other types of office equipment.	Yes	□No
★ 5) Percent That Can Be Heated: (b) (4)		
Is this the total percentage of the property that can be heated by mechanical equipment?	Yes	□No
★ 6) Percent That Can Be Cooled: (b) (4)		
Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.	Yes	□No
Notes: The workers listed in this section building engineers maintenance person all of whom are on the main day. These people do not have need for dedicated computers, thus the low ratio of	in cl nel, shit their conpute	ude teleaners own ors to worke
Restaurant: (b) (4)  This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★1) Gross Floor Area: 5,335	/	
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross	Yes	□No

Leasable s atrium, you the size to	is not the same as rentable, space would be a sub-set of Cu should count the Gross Floor accommodate open atrium stinclude any exterior spaces st.	Gross Floor Area. In the cor or Area at the base level pace at higher levels. Th	case where there is an only. Do not increase e Gross Floor Area	
Notes:				

### 3. Review of Energy Consumption

### **Data Overview** Site Energy Use Summary National Median Comparison Natural Gas (kBtu) National Median Site EUI (kBtu/ft²) 114.5 Electric - Grid (kBtu) National Median Source EUI (kBtu/ft²) 348.9 Total Energy (kBtu) % Diff from National Median Source -40.8% EUI **Energy Intensity** Site (kBtu/ft²) 67.8 Emissions (based on site energy use) Source (kBtu/ft²) 206.6 Greenhouse Gas Emissions (Metric 2,698.9 Tons CO2e) Power Generation Plant or Distribution Utility: NSTAR Co [Eversource Energy]

Note: All values are annualized to a 12-month period. Source Energy includes energy used in generation and transmission to enable an equitable assessment.

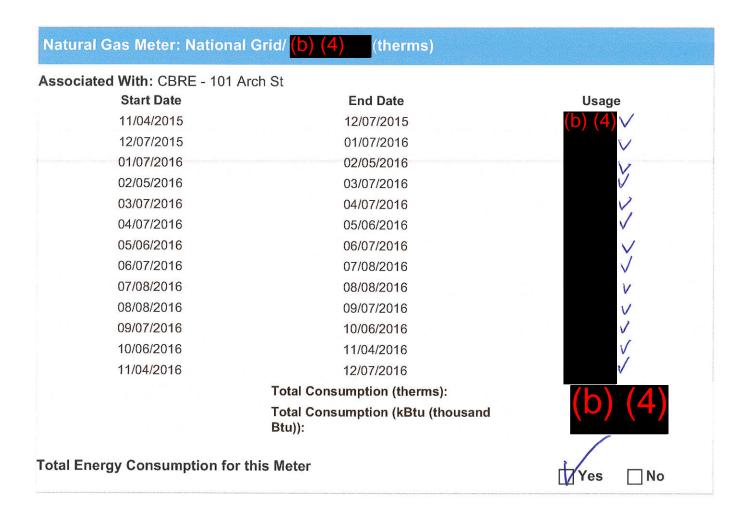
### **Summary of All Associated Meters**

The following meters are associated with the property, meaning that they are added together to get the total energy use for the property. Please see additional tables in this checklist for the exact meter consumption values.

Meter Name	Fuel Type	Start Date	End Date	Associated With
National Grid/ (b) (4)	Natural Gas	01/01/2006	In Use	CBRE - 101 Arch St
Restaurant Gas	Natural Gas	06/01/2009	In Use	CBRE - 101 Arch St
NSTAR/ (b) (4)	Electric	01/01/2006	In Use	CBRE - 101 Arch St
Total Energy Use				Yes No
Do the meters sho reporting period of		he total energy use of this	property during the	

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Additional Fuels	Yes	□No
Do the meters above include all fuel <i>types</i> at the property? That is, no additional fuels such as district steam, generator fuel oil have been excluded.		
On-Site Solar and Wind Energy  Are all on-site solar and wind installations reported in this list (if present)? All on-site systems must be reported.	Yes	□ No
Notes:		



Do the fuel consumption totals shown above include consumption of all energy tracked through this meter that affect energy calculations for the reporting period of this application (i.e., do the entries match the utility bills received by the property)?			
Notes:			

iated With: CBRE - 10		
Start Date	End Date	Usage
11/04/2015	12/04/2015	$(0) (4) \vee$
12/04/2015	01/06/2016	<b>V</b>
01/06/2016	02/04/2016	
02/04/2016	03/04/2016	<b>√</b> .
03/04/2016	04/05/2016	
04/05/2016	05/06/2016	$\checkmark$
05/06/2016	06/04/2016	V
06/04/2016	07/07/2016	
07/07/2016	08/05/2016	V
08/05/2016	09/02/2016	<b>V</b>
09/02/2016	10/05/2016	V
10/05/2016	11/03/2016	
11/03/2016	12/06/2016	V
	Total Consumption (therms):	(h) $(1)$
	Total Consumption (kBtu (thousand Btu)):	(D) ( <del>4</del> )
nergy Consumption f	or this Meter	\\\Yes

Notes:			
Electric Meter: NSTAR	/ <mark>(b) (4)</mark> (kWh (thousa	nd Watt-bours))	
		na watt-noursjj	
Associated With: CBRE -		TT	0 0
<b>Start Date</b> 10/29/2015	End Date	Usage	Green Power?
12/01/2015	12/01/2015 01/03/2016	(D) (4) Y	No
01/03/2016	01/03/2016	v /	No No
02/01/2016	03/01/2016	Y	No No
03/01/2016	03/30/2016		No
03/30/2016	04/30/2016	v/	No
04/30/2016	05/31/2016		No
05/31/2016	06/29/2016		No
06/29/2016	07/31/2016	$\sqrt{c}$	No
07/31/2016	08/30/2016		No
08/30/2016	09/29/2016	$\checkmark$	No
09/29/2016	10/31/2016	$\checkmark$	No
10/31/2016	11/30/2016	$\checkmark$	No
	Total Consumptio Watt-hours)):	on (kWh (thousand	(b) (4)
	Total Consumptio Btu)):	on (kBtu (thousand	
Total Energy Consumptio	n for this Meter		VYes □ No
through this meter that affec	als shown above include consump t energy calculations for the repor e utility bills received by the prope	ting period of this application	
Notes:			

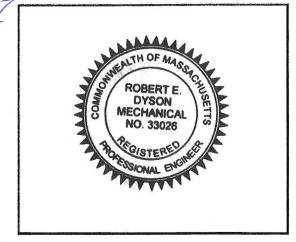
### 4. Signature & Stamp of Verifying Licensed Professional

of the visit to this property, I verify that the information contained within this application is accurate and in accordance with the Licensed Professional Guide.

Signature

Licensed Professional License: 33026 in MA

Robert Dyson 313 Congress Street Boston, MA 02210 617-330-9390 rdyson@c3boston.com



**NOTE:** When applying for the ENERGY STAR, the signature of the Verifying Professional must match the stamp.

Professional Engineer Stamp

### 5. Signatory Agreement

I hereby nominate the above described property for award of the ENERGY STAR. I have provided a copy of the Licensed Professionals Guide to the ENERGY STAR for Commercial Buildings to our Licensed Professional (LP) for reference. As documented by the above checklist, this property meets the conditions necessary to qualify as ENERGY STAR. I am submitting this application within four months of the Year Ending Date (November 30, 2016) used to generate the application. I will assist EPA, if requested, in verifying any data included in this application. Furthermore, I agree to associate the ENERGY STAR logo only with this property and to adhere to the ENERGY STAR Identity Guidelines.

Signature (must be a direct employee of the building owner/manager):

Signatory Name: Laura Mintz

Property Owner: CLPF 101 Arch LLP

The government astimates the average time needed to fill out this form is 9 hours (includes the time for entering energy data. Licensed Professional facility inspection, and notarizing the SEP) and welcomes suggestions for reducing this level of effort. Send comments inferror one OME control number; to the Director, Collection Strategies Division, U.S. EPA (28221), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460